LineUp With Math™ Alignment
Mathematics Content Standards and Performance Standards (Grade Level Expectations) [PSGLEs]
Fourth Edition – March 2006

Content Standard A: Mathematical Facts, Concepts, Principles, and Theories

Content Strand: Estimation and Computation

Estimation:

PSGLE	*LineUp With Math*™ Activities
The student determines reasonable answers to real-life situations, paper/pencil computations, or calculator results by **[5] E&C-1** identifying or using [a variety of **L**] strategies (e.g., rounding to appropriate place value, multiplying by powers of ten, using front-end estimation to estimate the results of addition or subtraction computations from tenths to 100,000, including money, or simple multiplication or division (M3.2.1)	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations. --Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.

Content Standards B, C, D, and E: Process Skills and Abilities

Content Strand: Problem Solving

PSGLE	*LineUp With Math*™ Activities
The student demonstrates an ability to problem solve by **[5] PS-1** selecting and applying an appropriate strategy (e.g., tables, charts, lists, or graphs; guess and check; extended patterns; making a model) to solve a variety of problems and verify the results (M7.2.2)	--Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.

Content Strand: Communication

PSGLE	*LineUp With Math*™ Activities
The student communicates his or her mathematical thinking by **[5] PS-3** representing problems using mathematical language including concrete, pictorial, and/or symbolic representation; or organizing and communicating mathematical problem solving strategies and solutions using mathematical language (M8.2.1, M8.2.2, & M8.2.3)	--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations. --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Content Strand: Reasoning	
PSGLE The student demonstrates an ability to use logic and reason by **[5] PS-4** drawing logical conclusions about mathematical situations (given a rule or generalization, determining whether the example fits); or justifying answers and mathematical strategies as reasonable (M9.2.1, M9.2.2, & M9.2.3)	***LineUp With Math™* Activities** --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Content Strand: Connections	
PSGLE The student demonstrates the ability to apply mathematical skills and processes across the content strands by **[5] PS-5** using real-world contexts such as social studies, friends, and school (M10.2.1 & M10.2.2)	***LineUp With Math™* Activities** --Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.